

WHAT IS CLAIMED IS:

1. A camera system, in which user operates a camera to watch an image obtained by said camera, comprising:

a rotary mirror type camera assembly including a camera, a mirror for camera arranged in front of said camera with a given angle relative to a light axis of said camera, and a mirror rotating mechanism driving said mirror for said camera to rotate about said light axis of said camera;

10 a rotary mirror type display apparatus including a monitor displaying an image picked up by said camera, a mirror for monitor arranged in front of said monitor with a given angle with respect to a display direction of said monitor, a finder permitting viewing of the image displayed on said monitor via said mirror for monitor, and a casing rotatable together with said mirror for monitor about an axis extending through substantially a center of the display screen of said monitor perpendicular to the display screen;

15 said mirror for camera being rotated according to rotation of said casing;

20 said mirror for monitor being fixed to said casing, when said casing is rotated, said mirror for monitor being rotated in display direction of said monitor in front of said monitor.

2. A camera system as set forth in claim 1, wherein
said rotary mirror type camera assembly and said rotary
mirror type display apparatus are arranged so that an
angle between an image pick-up direction along a light
axis of said camera and the display direction of said
monitor is within a range greater than or equal to 90°
and smaller than or equal to 270° .

3. A camera system as set forth in claim 1, wherein
a circular window having an opening portion is arranged
between said monitor and said mirror for monitor,
among an image displayed on said monitor, the
image in a region corresponding to said opening portion
is provided to a user as an image through said mirror
for monitor and said finder.

4. A camera system as set forth in claim 1, wherein
said rotary mirror type camera assembly and said rotary
mirror type display apparatus are arranged so that an
angle between an image pick-up direction along a light
axis of said camera and the display direction of said
monitor is within a range greater than or equal to 90°
and smaller than or equal to 270° ,
a circular window having a circular opening
portion between said monitor and said mirror for
monitor;
among an image displayed on said monitor, the

image in a region corresponding to said opening portion is provided to a user as an image through said mirror for monitor and said finder.

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5. A camera system as set forth in claim 1, wherein a rectangular window having a rectangular opening is arranged between said monitor and said mirror for monitor,

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said rectangular window is fixed to said casing, among an image displayed on said monitor, the image in a region corresponding to said opening portion is provided to a user as an image through said mirror for monitor and said finder.

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6. A camera system as set forth in claim 1, wherein said rotary mirror type camera assembly and said rotary mirror type display apparatus are arranged so that an angle between an image pick-up direction along a light axis of said camera and the display direction of said monitor is within a range greater than or equal to 90° and smaller than or equal to 270° ,

a rectangular window having a rectangular opening portion between said monitor and said mirror for monitor;

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said rectangular window is fixed to said casing, among an image displayed on said monitor, the image in a region corresponding to said opening portion

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is provided to a user as an image through said mirror
15 for monitor and said finder.

7. A camera system as set forth in claim 1, wherein
one of a circular window and a rectangular window is
arranged between said monitor and said mirror for
monitor,

5 said one of circular window and rectangular
window is fixed to said casing,

among an image displayed on said monitor, the
image in a region corresponding to said opening portion
is provided to a user as an image through said mirror
10 for monitor and said finder.

8. A camera system as set forth in claim 1, wherein
said rotary mirror type camera assembly and said rotary
mirror type display apparatus are arranged so that an
angle between an image pick-up direction along a light
5 axis of said camera and the display direction of said
monitor is within a range greater than or equal to 90°
and smaller than or equal to 270° ,

one of a circular window and a rectangular window
is arranged between said monitor and said mirror for
10 monitor,

said circular window or rectangular window is
fixed to said casing,

among an image displayed on said monitor, the

15 image in a region corresponding to said opening portion
is provided to a user as an image through said mirror
for monitor and said finder.

9. A camera system as set forth in claim 1, wherein
said rotary mirror type camera assembly and said rotary
mirror type display apparatus are arranged so that an
angle between an image pick-up direction along a light
5 axis of said camera and the display direction of said
monitor is within a range smaller than or equal to 90°,
said camera system further comprises image
converting means for converting said camera so that the
image of the object can be correctly displayed with
respect left and right and up and down on said rotary
10 mirror type display apparatus.

10. A camera system, in which user operates a camera
to watch an image obtained by said camera, comprising:
a rotary universal head camera including a camera
and a universal head which can rotate said camera at
5 least in horizontal direction,
a rotary mirror type display apparatus including
a monitor displaying an image picked up by said camera,
a mirror for monitor arranged in front of said monitor
with a given angle with respect to a display direction
of said monitor, a finder permitting viewing of the
10 image displayed on said monitor via said mirror for

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monitor, and a casing rotatable together with said mirror for monitor about an axis extending through substantially a center of the display screen of said monitor perpendicular to the display screen;

15 said universal head being rotated according to rotation of said casing,

image converting means for converting said camera so that the image of the object can be correctly displayed with respect left and right and up and down on 20 said rotary mirror type display apparatus.

11. A camera system as set forth in claim 10, wherein a circular window having an opening portion is arranged between said monitor and said mirror for monitor,

among an image displayed on said monitor, the 5 image in a region corresponding to said opening portion is provided to a user as an image through said mirror for monitor and said finder.

12. A camera system as set forth in claim 10, wherein one of a circular window and a rectangular window is arranged between said finder and said mirror for monitor,

5 said circular window or said rectangular window is fixed to said casing;

among an image displayed on said monitor, the image in a region corresponding to said opening portion is provided to a user as an image through said mirror

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for monitor and said finder.

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13. A display apparatus comprising:

a rotary mirror type display apparatus including
a monitor displaying an image, a mirror for monitor
arranged in front of said monitor with a given angle
5 with respect to a display direction of said monitor, and
a finder permitting viewing of the image displayed on
said monitor via said mirror for monitor, and a casing
rotatable together with said mirror for monitor about an
axis extending through substantially a center of the
10 display screen of said monitor perpendicular to the
display screen; and

image generating means including image storage
means for storing overall image to be displayed on said
monitor, image extracting means for extracting image to
be displayed on said monitor from said overall image
15 according to rotation of said casing, and image
converting means for converting the image extracted by
said image extracting means, for correct display of an
object on said rotary mirror type display apparatus
correctly with respect to left and right and up and down
20 directions,

the image generated by said image generating
means being displayed on said monitor and overall image
stored in said image storage means can be seen by
25 rotating said casing.

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14. A display apparatus as set forth in claim 13, wherein a circular window having an opening portion is arranged between said monitor and said mirror for monitor,

5 among an image displayed on said monitor, the image in a region corresponding to said opening portion is provided to a user as an image through said mirror for monitor and said finder.

15. A display apparatus as set forth in claim 13, wherein a rectangular window having a rectangular opening is arranged between said monitor and said mirror for monitor,

5 said rectangular window is fixed to said casing, among an image displayed on said monitor, the image in a region corresponding to said opening portion is provided to a user as an image through said mirror for monitor and said finder.

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16. A display apparatus as set forth in claim 13, wherein one of a circular window and a rectangular window is arranged between said finder and said mirror for monitor,

5 said circular window or said rectangular window is fixed to said casing; among an image displayed on said monitor, the

image in a region corresponding to said opening portion
is provided to a user as an image through said mirror
10 for monitor and said finder.

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